

1. Express the subtraction as addition. Then evaluate

a) $(+12) - (-5)$ $(12) + (+5)$ 17	b) $(+8) - (-11)$ $(8) + (+11)$ 19	c) $(-14) - (+7)$ $(-14) + (-7)$ -21
d) $(-9) - (+15)$ $(-9) + (-15)$ -24	e) $(-17) - (-8)$ $(-17) + (+8)$ -9	f) $(-16) - (-22)$ $(-16) + (+22)$ 6
g) $(+19) - (+25)$ $(+19) + (-25)$ -6	h) $0 - (-12)$ $0 + (+12)$ 12	

2. Add.

a) $(-19) + (-6)$ $-19 - 6$ -25	b) $(-24) + (-11)$ $-24 - 11$ -35	c) $(+17) + (-12)$ $17 - 12$ 5	d) $(+32) + (-16)$ $32 - 16$ 16
e) $(+25) + (-34)$ $25 - 34$ -9	f) $(-15) + (17)$ $-15 + 17$ 2	g) $(-3) + (-10)$ $-3 - 10$ -13	h) $(+5) + (11)$ $5 + 11$ 16
i) $(+84) + (-6)$ $84 - 6$ 78	j) $(-7) + (-7)$ $-7 - 7$ -14	k) $0 + (+8)$ $0 + 8$ 8	l) $(-32) + (-16)$ $-32 - 16$ -48

3. Evaluate

a) $(-6) + (-5) + (-9) + (-12)$ $-6 - 5 - 9 - 12$ $-11 - 21$ -32	b) $(+9) + (+11) + (-14) + (-13)$ $9 + 11 - 14 - 13$ $20 - 27$ (like terms) -7
c) $(7) + (16) + (17) + (-12)$ $7 + 16 + 17 - 12$ $40 - 12$ 28	d) $(-16) + (15) + (-13) + (-10)$ $-16 + 15 - 13 - 10$ $-16 - 13 - 10 + 15$ (like terms) $-39 + 15$ -24
e) $(-22) + (-7) + (-11) + (12) + (+9)$ $-22 - 7 - 11 + 12 + 9$ $-40 + 21$ -19	f) $(30) + (-19) + (17) + (-22) + (13)$ $30 - 19 + 17 - 22 + 13$ $30 + 17 + 13 - 19 - 22$ $60 - 41$ 19

4. Mount Everest is 8848 m above sea level. Death Valley is 86 m below sea level. What is the difference in the elevation between the mountain and the valley?

$$8848 - (-86) \quad \text{The difference in the elevation between the mountain and the valley}$$

$$8848 + 86 \quad \text{is } \mathbf{8934 \text{ m.}}$$

$$\mathbf{8934}$$

5. The table shows the record high and low temperatures for the eastern provinces.

PROVINCE	TEMPERATURE	
	HIGH	LOW
NEWFOUNDLAND	42	-51
NEW BRUNSWICK	39	-47
NOVA SCOTIA	38	-41
PRINCE EDWARD ISLAND	37	-37

- a) Which province has the record low temperature?

Newfoundland

- b) How much colder is this than the other record low temperature?

$$-51 - (-47)$$

$$-51 + 47$$

-4

- c) Which province has the greatest change in temperature?

$$\mathbf{NL} \quad 42 - (-51) \quad \mathbf{NB} \quad 39 - (-47) \quad \mathbf{NS} \quad 38 - (-41) \quad \mathbf{PEI} \quad 37 - (-37)$$

$$42 + 51$$

$$39 + 47$$

$$38 + 41$$

$$37 + 37$$

93

86

79

74

- d) What is the change in temperature from the low to the high for each province?

NL 93

NB 86

NS 79

PEI 74

